

Anritsu Introduces Modular 2-port VNA Family that Combines Performance and Cost Efficiencies at Frequencies Up to 43.5 GHz

— New ShockLine™ ME7868A 2-port USB VNAs Deliver Phase Synchronized Measurements Over Wide Distances Up to 100 Meters —

Morgan Hill, CA – August 4, 2020 – Anritsu Company introduces the ShockLine™ ME7868A family of modular 2-port vector network analyzers (VNAs) that can conduct full vector S-parameter measurements over wide distances of up to 100 meters. Consisting of two MS46131A 1-port VNAs with the PhaseLync™ synchronization option hardware and accessories, the ME7868A VNA uses the MS46131As as portable VNA ports to directly connect to the device under test (DUT) to deliver vector transmission measurements over longer lengths and at a lower cost. The VNAs offer multiple advantages compared to traditional solutions that use 2-port VNAs with very high dynamic range and require long and expensive phase stable microwave cables to reach the DUT.

Available in 8 GHz, 20 GHz, and 43.5 GHz frequency models, the ME7868A series supports multiple existing and emerging commercial and military applications, including high frequency 5G. As the first modular-port-based VNA, the ME7868A eliminates the need for long port cables to measure transmission over distance for applications such as outdoor antenna range testing, over-the-air (OTA) chamber installations, large vehicle (aircraft, ship) electromagnetic characterization (shielding, RF propagation), and long-distance cable insertion loss measurements.

The new PhaseLync technology enables two MS46131A 1-port VNAs to phase synchronize with each other over a distance of up to 100 meters for the first time. PhaseLync improves dynamic range and measurement stability of s-parameter measurements by eliminating the need for long cables with conventional benchtop VNAs. The result is greater cost and operational efficiencies when measuring transmission over distance.

Very lightweight and extremely compact, the two MS46131A 1-port VNAs that comprise the ME7868A are USB controlled via an external PC running ShockLine software. Engineers can easily configure and control MS46131A VNAs from a single PC to conveniently match port count to test setup requirements. Data is more secure, as all measurement results are stored on the PC, rather than the VNA, making the solution well suited for confidential testing environments. Analysis and documentation are also simplified, as there is no need to transfer data off the onboard instrument memory.

(more)

About Anritsu

Anritsu Company is the United States subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for 120 years. Anritsu's "2020 VISION" philosophy engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. The company develops advanced solutions for 5G, M2M, IoT, as well as other emerging and legacy wireline and wireless communication markets. With offices throughout the world, Anritsu has approximately 4,000 employees in over 90 countries.

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